

SEQUENCE LISTING

<110> Reed, Guy L.

<120> Composition and Method for Enhancing Fibrinolysis

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<141> 2001-10-12

<150> 08/934,000

<151> 1997-09-19

<150> 60/026,356

<151> 1996-09-20

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<170> PatentIn version 3.1

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Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
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Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
50 55 60

Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser
65 70 75

Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr
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Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
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Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys	
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cct gga gag aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc	144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe	
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aca aag tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta	192
Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu	
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aag tgg atg ggc tgg ata aac acc aac agt gga gag cca aca tat gct	240
Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala	
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gaa gag ttc aag gga cgg ttt gcc ttc tct ttg gaa acc tct gcc agc	288
Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser	
65 70 75	

act gcc tat ttg cag atc aac aac ctc aaa aat gag gac tct gct aca	336
Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr	
80 85 90	

tat ttc tgt gca aga tgg gta cct ggg acc tat gct atg gac tac tgg	384
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp	
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Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
15 20 25

Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
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Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr
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Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp
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Gly Gln Gly Thr Ser Val Thr Val Ser Ser
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Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys
1 5 10

cct gga gaa aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc 144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe
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aca aac tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta 192
Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
30 35 40 45

aag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat gct 240
Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
50 55 60

gaa gag ttc aag gga cgg ttt gcc ttc tct ttg gaa acc tct gcc agc 288
Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
65 70 75

act gcc aat ttg cag atc aaq aac ctc aaa aat gag gac acg gct aca 336

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser
65 70 75

Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr
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Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Asp Ile Gln Met
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act cag tct cca tcc tcc cta tct gca tct gtg gga gac aga gtc acc 150
Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr
5 10 15 20

atc aca tgt cga gca agt ggg aat att cac aat tat tta gca tgg tat 198
Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr Leu Ala Trp Tyr
25 30 35

cag cag aaa cag gga aaa tct cct caa ctc ctg gtc tat aat gca aaa 246
Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr Asn Ala Lys
40 45 50

acc tta gca agt ggt gtg cca tca agg ttc agt ggc agt gga tca gga 294
Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
55 60 65

aca gat ttt act ctc acc atc agc agc ctg cag cct gaa gat ttt ggg 342
Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Gly
70 75 80

agt cat tac tgt caa cat ttt tgg acc act ccg tgg acg ttc ggt gga 390
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1 5 10

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Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys
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aag cct gga gcc tca gtc aag atc tcc tgc aag gct tct ggg tat acc      144
Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr
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ttc aca aac tat gga atg aac tgg gtg cga cag gct cca gga caa ggt      192
Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly
                      30                      35                      40

tta gag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat      240
Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr
45                      50                      55                      60

gct gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gac acc tct gtc      288
Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val
                      65                      70                      75

acc act gcc tat ttg cag atc agc agc ctc aaa gct gag gac acg gct      336
Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala
                      80                      85                      90

gtg tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac      384
Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr
95                      100                      105

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Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys
1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val
65 70 75

Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
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-10 -5 1

gtg	cag	tct	gga	gct	gag	gtg	aag	aag	cct	gga	gcc	tca	gtc	aag	atc	150
Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala	Ser	Val	Lys	Ile	
5					10					15					20	

tcc tgc aag gct tct ggg tat acc ttc aca aac tat gga atg aac tgg 198
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn Trp
25 30 35

gtg cga cag gct cca gga caa ggt tta gag tgg atg ggc tgg ata aac 246
Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn
40 45 50

acc aag agt gga gag cca aca tat gct gaa gag ttc aag gga cgg ttt 294
Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe Lys Gly Arg Phe
55 60 65

acc ttc acc ttg gac acc tct acg agc act gcc tat ttg gag atc agg 342
Thr Phe Thr Leu Asp Thr Ser Thr Ser Thr Ala Tyr Leu Glu Ile Arg
70 75 80

agc ctc aga tct gac gac acg gct gtg tat ttc tgt gca aga tgg gta 390
 Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Val
 85 90 95 100

cct ggg acc tat gcc atg gac tac tgg ggt caa gga acc acg gtc acc 438
Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr
105 110 115

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Val Ser Ser

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Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr
65 70 75

Ser Thr Ala Tyr Leu Glu Ile Arg Ser Leu Arg Ser Asp Asp Thr Ala
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
110 115

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gataaccggt caatcgattg ggattctt 88

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gcaagaattc caatcgattg accggtta 88

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41

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attcgaagcc gg 72

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ctcgaggggt caccacgctg ctga

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<400> 35

aacagctatg accatgatta c

21

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<400> 36

cacccagcct gtgcctgcct g

21

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<400> 37

cgattggaat tcttgcggcc gcttgctagc

30

<210> 38

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<223> Alpha-2 Antiplasmin Antibody

<400> 38

cttgcggccg cttgctagca tggattgggt gtggaacttg ctattcctga tggcagctgc

60

ccaaagtatc caagcacaga

80

<210> 39

<211> 80

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60

ttggatactt tgggcagctg

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tcattccata gtttqtgaag 80
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<210> 42

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gacggtttgc cttctctttg                                     .      80
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aaggcaaacc gtcccttgaa 80

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ggcataggtc ccaggtaccc 80

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<400> 46

gggaagacgg atgggccctt ggtgctagc

29

<210> 47

<211> 30

<212> DNA

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<400> 47

atttaaattg atatctcctt aggtctcgag

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ctgctgctgt ggcttacag

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ttcagtggca gtggatca 78
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ctgccactga accttgat 78
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cgttcgggtgg aggcacca 78
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ataggtccca ggtacccatc 80

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agaagcctgg agcctcagtc 80

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gtaaaccgtc ccttgaactc 80

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<400> 68

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acctgggacc tatgcatgg 80

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ccacagcagc agcaacgc 78

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gtctccatcc tccctatctg catctgtggg agacagagtc accatcacat gtcgagcaag 60

tgggaatatt cacaatta 78

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ttcagtgga gtggatca 78

<210> 72

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ctgccactga accttgat 78

<211> 18

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Tyr Pro Arg Ser Ile Tyr Ile Arg Arg Arg His Pro Ser Pro Ser Leu
1 5 10 15

Thr Thr

<210> 74

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Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser
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1 5 10 15

Glu Thr Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Gln Xaa Ser Leu Xaa Ile Asn Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

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Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Xaa Ile Asn Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

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1 5 10 15

Xaa Xaa Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Xaa Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Xaa Xaa Xaa Leu Xaa Ile Xaa Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

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Gln Ile Gln Leu Val Gln Ser Gly Xaa Glu Xaa Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
50 55 60

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Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15

Thr Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa
65 70 75 80

Leu Gln Ile Xaa Asn Xaa Xaa Asn Glu Asp Xaa Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Ser Val Thr Val Ser Ser
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1 5 10 15

Thr Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
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Gln Ile Gln Leu Val Gln Ser Gly Xaa Glu Xaa Lys Lys Pro Gly Xaa
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Xaa Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr
20 25 30

Gly Met Asn Trp Val Xaa Gln Ala Pro Gly Xaa Gly Leu Xaa Trp Met
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe
50 55 60

Lys Gly Arg Phe Xaa Phe Xaa Leu Xaa Thr Ser Xaa Ser Thr Ala Xaa
65 70 75 80

Leu Xaa Ile Xaa Xaa Xaa Xaa Xaa Asp Xaa Ala Xaa Tyr Phe Cys
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Xaa Val Thr Val Ser Ser
115

115 110 105 100 95 90 85 80 75 70 65 60 55 50